

Nov 71

NOVA LINE PRICE LIST

Prices quoted are effective May 18, 1971, FOB Southboro, Massachusetts, and apply in continental United States only. Federal, state or local taxes are not included. Option prices are for factory installation; field installation prices will be quoted upon request. All prices are subject to change without notice.

Type Number	Description	Pre-requisite	Price	Type Number	Description	Pre-requisite	Price
NOVA 1200 CENTRAL PROCESSOR AND OPTIONS							
8101	Nova 1200 central processor with six additional subassembly slots. Four accumulators (hardware), input/output system with programmed data transfer, 16-level programmed priority interrupt, direct memory data channel, console with lock, power supply. Slide mountable in a 19" rack. Chassis is 5¼" high (50/60 Hz, 117 VAC). For operation at 230 VAC, order 8101-2. Without console, reduce price by \$300.	8103 or 8104	\$2,400	8202	Nova 800 central processor with 15 additional subassembly slots. Four accumulators (hardware), input / output system with programmed data transfer, 16-level programmed priority interrupt, direct memory data channel, console with lock, power supplies. Slide mountable in a 19" rack. Chassis is 10½" high (50/60 Hz, 117 VAC). For operation at 230 VAC, order 8202-2.	8203 or 8204	\$3,600
8102	Nova 1200 jumbo central processor with 16 additional subassembly slots. Four accumulators (hardware), input/output system with programmed data transfer, 16-level programmed priority interrupt, direct memory data channel, console with lock power supplies. Slide mountable in a 19" rack. Chassis 10½" high (50/60 Hz, 117 VAC). For operation at 230 VAC, order 8102-2.	8103 or 8104	3,250	8205	Nova 800 central processor. Same as 8201, mounted in a table-top cabinet. No slide mounts are included. For operation at 230 VAC, order 8205-2.	8203 or 8204	4,450
8105	Nova 1200 central processor. Same as 8101, mounted in a table-top cabinet. No slide mounts are included. For operation at 230 VAC, order 8105-2.	8103 or 8104	2,400	8206	Power monitor and auto-restart. Causes program interrupt when power fails and automatic restart when power is restored.	8201,2, or 5	400
8106	Power monitor and auto-restart. Causes program interrupt when power fails and automatic restart when power is restored.	8101,2, or 5	400	8207	Nova 800 multiply/divide. Multiplies two 16-bit numbers to produce a 32-bit product. Divides a 32-bit dividend by a 16-bit divisor to produce a quotient and a remainder.	8201,2, or 5	1,000
8107	Nova 1200 multiply/divide. Multiplies two 16-bit numbers to produce a 32-bit product. Divides a 32-bit dividend by a 16-bit divisor to produce a quotient and a remainder. Occupies one subassembly slot.	8101,2, or 5	1,600	8208	Automatic program load.	8201,2, or 5	400
8108	Automatic program load.	8101,2, or 5	400	8222	External I/O cable connector. Brings I/O interface connections from the internal I/O bus to an external 50-pin connector.	8201,2, or 5	250
8122	External I/O cable connector. Brings I/O interface connections from the internal I/O bus to an external 50-pin connector.	8101,2, or 5	250	8224	Nova 800 expansion chassis. Adds 7 I/O subassembly slots, and 5-volt, 12-amp power supply. Chassis is 5¼" high and mounts below the central processor chassis. Supplied for operation at 50/60 Hz, 117 VAC; for operation at 230 VAC, order 8224-2.	8201 or 8202	1,850
8124	Nova 1200 expansion chassis. Adds 7 I/O subassembly slots, and 5-volt 12-amp power supply. Chassis is 5¼" high and mounts below the central processor chassis. Supplied for operation at 50/60 Hz, 117 VAC; for operation at 230 VAC, order 8124-2.	8101 or 8102	1,850	8225	Nova 800 expansion chassis. Adds 7 memory or I/O subassembly slots, and 5-volt, 12-amp power supply. Chassis is 5¼" high and mounts above the central processor chassis. Supplied for operation at 50/60 Hz, 117 VAC; for operation at 230 VAC, order 8225-2.	8201 or 8202	1,850
8125	Nova 1200 expansion chassis. Adds 7 memory or I/O subassembly slots, and 5-volt, 12-amp power supply. Chassis is 5¼" high and mounts above the central processor chassis. Supplied for operation at 50/60 Hz, 117 VAC; for operation at 230 VAC, order 8125-2.	8101 or 8102	1,850	NOVA 800 MEMORIES			
NOVA 1200 MEMORIES				8203	4096 16-bit word (8192 bytes) core memory. 800 nanosecond cycle time. Occupies one subassembly slot.	8201,2, or 5	3,000
8103	4096 16-bit word (8192 bytes) core memory, 1.2 microsecond cycle time. Occupies one subassembly slot.	8101,2, or 5	2,700	8204	2048 16-bit word (4096 bytes) core memory. 800 nanosecond cycle time. Occupies one subassembly slot.	8201,2, or 5	2,500
8104	2048 16-bit word (4096 bytes) core memory, 1.2 microsecond cycle time. Occupies one subassembly slot.	8101,2, or 5	2,200	NOVA CENTRAL PROCESSOR AND OPTIONS			
NOVA 800 CENTRAL PROCESSOR AND OPTIONS				4001	Nova central processor with four accumulators (hardware). Input/output system with programmed data transfer, 16-level programmed priority interrupt, direct memory data channel, console with lock, power supply, five additional subassembly slots, slide mountable in a 19" rack. Chassis is 5¼" high (50/60 Hz, 117 VAC). For operation at 230 VAC, order 4001-2.		3,950
8201	Nova 800 central processor with five additional subassembly slots. Four accumulators (hardware), input/output system with programmed data transfer, 16-level programmed priority interrupt, direct memory data channel, console with lock, power supply. Slide mountable in a 19"			4006	Power monitor and auto-restart. Causes program interrupt when power fails and automatic restart when power is restored.		400

Type Number	Description	Pre-requisite	Price	Type Number	Description	Pre-requisite	Price
4022	External I/O cable connector. Brings I/O interface connections from the internal I/O Bus to an external 50-pin connector.	4001	\$ 250	<u>SUPERNOVA MEMORIES</u>			
4024	Nova expansion chassis. Adds 7 additional subassembly slots, and 5-volt, 12-amp power supply. Chassis is 5¼" high (50/60 Hz, 117 VAC). For operation at 230 VAC, order 4024-2.	4001	1,850	8003	4096 16-bit word (8192 bytes) core memory. 800 nanosecond cycle time. Occupies one subassembly slot.	8001	\$ 3,650
4031	Nova multiply/divide. Contains three 16-bit registers that are loaded and read with I/O instructions. Multiplies two 16-bit numbers to form a 32-bit product. Divides a 32-bit dividend by 16-bit divisor to produce a quotient and a remainder. Occupies one subassembly slot.	4001	2,000	<u>SUPERNOVA SC MEMORIES</u>			
<u>NOVA MEMORIES</u>				8012	1024 16-bit word (2048 bytes) monolithic memory. 300 nanosecond cycle time. Occupies one subassembly slot.	8001	2,800
4003	4096 16-bit word (8192 bytes) core memory. Occupies one subassembly slot.	4001	3,650	8013	512 16-bit word (1024 bytes) monolithic memory. 300 nanosecond cycle time. Occupies one subassembly slot.	8001	2,200
4004	2048 16-bit word (4096 bytes) core memory. Occupies one subassembly slot.	4001	2,700	8014	256 16-bit word (512 bytes) monolithic memory. 300 nanosecond cycle time. Occupies one subassembly slot.	8001	1,500
4005	1024 16-bit word (2048 bytes) read-only memory, wired to customer specifications. Occupies one subassembly slot.	4001	1,600	<u>STANDARD INTERFACE</u>			
<u>SUPERNOVA CENTRAL PROCESSOR AND OPTIONS</u>				4007	I/O interface subassembly for interface Types 4008, 4010, 4011, and 4012. Occupies one subassembly slot.	Any central processor	200
8001	Supernova central processor with automatic program load, four accumulators (hardware) input/output system with programmed data transfer, 16-level programmed priority interrupt, direct memory data channel, console with lock, power supply, four additional subassembly slots, mountable in a 19" rack with slides. Chassis is 5¼" high (50/60 Hz, 117 VAC). For operation at 230 VAC, order 8001-2.		5,600	<u>REAL-TIME CLOCK</u>			
8006	Power monitor and auto-restart. Causes program interrupt when power fails and automatic restart when power is restored.	8001	400	4008	Real-time clock. Four frequencies selectable under program control: line frequency, 10 Hz, 100 Hz, or 1000 Hz. Provides a program interrupt for programming a time of day clock or an interval timer. Clock source is AC line or crystal controlled oscillator.	4007	400
8007	Supernova multiply/divide. Multiplies two 16-bit numbers to produce a 32-bit product. Divides a 32-bit dividend by a 16-bit divisor to produce a quotient and a remainder.	8001	1,600	<u>TELETYPES</u>			
8008	Memory allocation and protection option. Provides instruction protection, memory protection. Occupies one subassembly slot.	8001	3,500	The Teletype models listed below are for 60 Hz, 117 VAC operation. For operation at 50 Hz, 117 VAC, order with type number suffix 1 (e.g., 4010A-1). For operation at 50 Hz, 230 VAC, order with type number suffix 2 (e.g., 4010A-2) and add \$50 to price.			
8009	Optional high-speed data channel. Uses the same interface as the standard data channel. Allows I/O device/memory transfers at up to 1.25 million 16-bit words/second for input and 1.0 million 16-bit words/second for output, add-to-memory, and increment. Interference for a single transfer is generally 800 nanoseconds. Maximum latency time is 4.2 microseconds. Occupies one subassembly slot.	8001	950	4009	Teletype modification kit. Converts Models ASR 33TZ, TC or TU to on-line operation for use with 4010 control.		100
8022	External I/O cable connector. Brings I/O interface connections from internal I/O bus to external 50-pin connector.	8001	250	4010	Teletype I/O interface for Models 33ASR, 33KSR, 35ASR and 35KSR.	4007	150
8024	Supernova expansion chassis. Adds 7 additional subassembly slots and 5-volt, 12-amp power supply, 5¼" high (50/60 Hz, 117 VAC). For operation at 230 VAC, order 8024-2.	8001	1,850	4010A	Teletype Model 33ASR 10 cps keyboard/printer; 10 cps 8-channel paper tape reader/punch.	4010	1,250
				4010B	Teletype Model 33KSR 10 cps keyboard/printer.	4010	975
				4010C	Teletype Model 35KSR 10 cps heavy duty keyboard/printer (P.D. 102).	4010	2,725
				4010E	Teletype Model 33ASR (TDT) 10 cps keyboard printer; 10 cps 8-channel paper tape reader/punch with reader control (may also be used as 4010A).	4050 or 4010	1,400
				4023	Voltage (EIA) I/O interface for model 37ASR and 37KSR Teletypes and for Bell System Type 103 data set or equivalent when manual answer only is used. 150 baud; add \$50 for different baud rates.	4010	50
				4023A	Teletype model 37ASR; 15 cps keyboard printer (upper and lower case); 15 cps 8-channel paper tape reader/punch.	4023	5,250
				4023B	Teletype model 37KSR; 15 cps keyboard/printer (upper and lower case).	4023	3,750

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3,75

Type Number	Description	Pre-requisite	Price	Type Number	Description	Pre-requisite	Price
PAPER TAPE READER/PUNCH				4017D	Incremental plotter (flatbed). 31 x 34 inch plot area, step size of 0.01", 0.005", 0.002", 0.1mm or 0.05mm (300 steps/second). (Calcomp Model 502).	4017	\$ 25,500
4011	Paper tape reader control for Type 4011B reader.	4007	\$ 850	4017E	Incremental plotter (Z-fold paper). 11" paper, 0.01", 0.005", 0.25mm or 0.10mm step size (300 steps/second). (Houston Instrument Model DP-1). Operates on either 50 Hz or 60 Hz. Line voltage is switch selectable to 117 VAC or 230 VAC.	4017	5,000
4011B	High-speed paper tape reader, 300 cps, fan fold, 8-channel tape, rack-mountable (60 Hz, 117 VAC). For operation at 50 Hz, 117 VAC, order 4011B-1 (\$1,950). For operation at 50 Hz, 230 VAC, order 4011B-2 (\$1,950).	4011	1,800	ANALOG TO DIGITAL CONVERSION EQUIPMENT			
4012	Paper tape punch control for Type 4012A paper tape punch.	4007	700	The A/D converters listed below operate on either 50 Hz or 60 Hz. Line voltage is switch selectable to 117 VAC or 230 VAC.			
4012A	High-speed paper tape punch, 63.3 cps (Teletype BRPE 11) for fan-fold 8-channel paper tape, slide-mountable in a 19" rack. Chassis is 14" high (60 Hz, 117 VAC). For operation at 50 Hz, 117 VAC, order 4012A-1 (\$1,550). For operation at 50 Hz, 230 VAC, order 4012A-2 (\$1,575).	4012	1,500	4032	Basic A/D interface. Connects 4055 series converters and multiplexers to programmed I/O system.	4014	700
4013	Remote-operation modification to punch model 4012A, allows power turn-on, turn-off under program control.	4012A	300	4033	A/D interface expansion. Adds data channel connections to 4032 interface.	4032	1,000
CARD READERS				4055A	Chassis and low capacity power supply for housing A/D and D/A systems.	4032 and/or 4037	900
4036	I/O interface subassembly for options 4016 and 4037. Occupies one sub-assembly slot.	Any central processor	200	4055B	Chassis and high capacity power supply for housing A/D and D/A systems.	4032 and/or 4037	1,200
4016	Card reader control for Type 4016A and 4016B card readers.	4036	850	4055C	A/D converter; 8 bits.	4055A or B	450
4016A	Medium-speed card reader, 225 cpm (60 Hz, 117 VAC). For operation at 50 Hz, 117 VAC, order 4016A-1 (\$3,200). For operation at 50 Hz, 230 VAC, order 4016A-2 (\$3,200).	4016	3,000	4055D	A/D converter; 10 bits.	4055A or B	600
4016B	Medium-speed card reader, 400 cpm (60 Hz, 117 VAC). For operation at 50 Hz, 117 VAC, order 4016B-1 (\$3,200). For operation at 50 Hz, 230 VAC, order 4016B-2 (\$3,200).	4016	3,000	4055E	A/D converter; 12 bits.	4055A or B	750
LINE PRINTERS				4055F	A/D converter; 13 bits.	4055A or B	950
Line printers 4034A and 4034B operate at 60 Hz, 117 VAC. For operation at 50 Hz, 117 VAC, order with type number suffix 1 (e.g., 4034A-1). For operation at 50 Hz, 230 VAC, order with type number suffix 2 (e.g., 4034A-2).				4055G	A/D converter; 14 bits.	4055A or B	1,200
4034	Line printer control for 4034 A & B printers. Full ASCII interface including paper-advance characters.	Any central processor	1,400	4055H	A/D converter; 15 bits.	4055A or B	3,200
4034A	Line printer, 356, lpm, 80 columns, 64 character ASCII (Data Products).	4034	11,500	4055I	Buffer amplifier, single ended.	4055C - H	200
4034B	Line printer, 245, lpm, 132 columns, 64 character ASCII (Data Products).	4034	16,000	4055J	Buffer amplifier, differential.	4055C - H	400
PLOTTERS				4055K	Timing and control for multiplexer and sample and hold.	4055C - H	230
Plotters 4017A-4017D operate at either 50 Hz or 60 Hz, 117 VAC. For operation at 230 VAC, order with type number suffix 2 (e.g., 4017A-2) and add \$50 to price.				4055L	Sample and hold.	4055K	300
4014	I/O interface subassembly for interface types 4017, 4032. Occupies one subassembly slot.	Any central processor	200	4055M	Multiplexer, 8-channel (4-channel differential).	4055I or J & 4055K	160
4017	Incremental plotter control for all Series 4017 plotters.	4014	1,500	4055N	Multiplexer, 16-channel (8-channel differential).	4055I or J & 4055K	300
4017A	Incremental plotter (drum) 12" paper, 0.01", 0.005" or 0.1mm step size, 300 increments/second. (Calcomp Model 565).	4017	6,850	4055O	Enclosure, power supply, and decoding for 128-channel (64 differential) multiplexer expander.	4055C - H	2,500
4017B	Rack-mountable version of 4017A.	4017	7,580	4055P	Enclosure, power supply, and control for 64-channel (32 differential) simultaneous sample and hold expander.	4055C - H	2,500
4017C	Incremental plotter (drum), 30" paper, 0.01" (200 increments/second), 0.005", 0.1mm (300 increments/second) step size. (Calcomp Model 563).	4017	12,000	4055Q	Dual sample and hold.	4055P	600
				DIGITAL TO ANALOG CONVERSION EQUIPMENT			
				The D/A converters listed below operate on either 50 Hz or 60 Hz. Line voltage is switch selectable to 117 VAC or 230 VAC.			
				4037	D/A converter control, connects Series 4037 converters and amplifiers to programmed I/O system.	4036	300
				4053	Oscilloscope control for storage and nonstorage scopes.	4037	200
				4056A	Timing and control for D/A converter.	4055A or B	350
				4056B	D/A converter; 8 bits.	4056A or 4056H	250
				4056C	D/A converter; 10 bits.	4056A or 4056H	275
				4056D	D/A converter; 12 bits.	4056A or 4056H	300
				4056E	D/A converter; 13 bits (price includes 4056G amplifier).	4056A or 4056H	625
				4056F	D/A converter; 14 bits (price includes 4056G amplifier).	4056A or 4056H	720

Type Number	Description	Pre-requisite	Price	Type Number	Description	Pre-requisite	Price
4056G	Amplifier.	4056B-D	\$ 100	COMMUNICATIONS EQUIPMENT AND COMPUTER INTERFACES			
4056H	Enclosure, power supply, and decoding for up to 24 D/A converters.	4037	2,600	4015	High-speed communications controller for high-speed full-duplex or half-duplex synchronous data sets (Bell 201, Bell 301 or equivalent). Automatic line synchronization, work assembly and end-of-transmission recognition. (SYNC and EOT characters may be changed under program control.) All data transfers are through the data channel. Accommodates character widths from 6 to 8 bits. (See options 4020 and 4021). Occupies one subassembly slot.	Any central processor	\$ 2,250
DISKS				4020	Internal clock option. Adjustable oscillator for Type 4015 high-speed communications controller. Used when modem is not employed.	4015	175
4019	Disk control for 4019A, 4019B or 4019C disks. Data transfers through the data channel facility. Controls up to 8 Type 4019 disk units. Occupies one subassembly slot. Includes a 10-foot cable, \$5/foot for additional length.	Any central processor	3,000	4021	Parity option for Type 4015 high-speed communications controller. Appends even or odd parity bit to each character (6, 7 or 8 bits long) on transmission and checks parity on reception.	4015	250
4019A	64K (16-bit words), fixed head disk. Rack-mountable.	4019	4,250	4025	Interface to IBM System 360. Occupies two subassembly slots. Price assumes that customer supplies sufficient 360 computer time and support for installation and verification of correct operation. Price does not include installation.	Any central processor	5,000
4019B	128K (16-bit words), fixed head disk. Rack mountable.	4019	5,250	4026	Sixteen-line Teletype multiplexer. Controls up to four Type 4027 or 4028 interfaces. Allows for programmed bit assembly/disassembly of characters. Interrupt clock frequency is 550 Hz. Add \$50 for different frequencies. Occupies one subassembly slot.	Any central processor	1,000
4019C	256K (16-bit words), fixed head disk. Rack mountable.	4019	6,750	4027	Interface to four EIA standard level lines. Used with Bell type 103 or equivalent data sets. Includes four EIA level inputs in addition to data input.	4026	350
4046	Disc control for up to 4 moving-arm discs. Occupies one subassembly slot.	Any central processor	4,000	4028	Interface to four 20-mil Teletype lines. Used with local Teletypes (less than 100 feet).	4026	300
4048	Adapts 4048A or IBM 2311 disk to 4046 control. One 4048 services up to four 4048A's (60 Hz 117 VAC). For operation at 50 Hz 117 VAC, order 4048-1. For operation at 50 Hz 230 VAC order 4048-2.	4046	6,000	4029	Voltage (EIA) interface for Bell System Type 202 data set or equivalent (1200 baud), or Type 103 data set or equivalent (150 baud). Specify baud rate required; add \$50 for different baud rates.	4023	200
4048A	Disk drive (Century III) 3.072 million 16 bit words uses 4048B removable pack, 60 Hz 208/230 VAC three phase connection. For 50 Hz 208/230/380 VAC 3 phase operation order 4048A-2.	4048	13,000	4038	Multiprocessor communications adapter. Up to fifteen 4038's may be interconnected with one per system. Occupies one subassembly slot.	Any central processor	2,100
4048B	Disk pack 10 surface removable media (nonformatted).	4048A	350	4039A	Ten-foot cable for interconnecting 4038's; \$5/foot for additional cable length.		200
MAGNETIC TAPE				4050	Teletype junction panel for operating up to 16 Teletypes with 4028's. Consists of 16 9-pin connectors. Requires 4052A cable. Rack mountable; 1 3/4" high.	4028	375
4030	Magnetic tape control. Controls up to 8 synchronous read/write 7 or 9 track industry compatible tape transports. Occupies one subassembly slot. Includes a 10-foot cable. \$5/foot for additional length.	Any central processor	4,000	4051	Modem junction panel for operating up to 16 modems with 4027's. Consists of 16 9-pin connectors. Requires two 4052A cables. Rack mountable; 1 3/4" high.	4027	500
4030A	Magnetic tape transport, 7 track, 24 ips, industry compatible (Ampex TMZ).	4030	5,900	4052A	Ten-foot cable for connecting 4050 to 4028's; \$5/foot for additional cable length up to 100 feet.	4050	200
4030B	Magnetic tape transport, 9 track, 24 ips, industry compatible (Ampex TMZ).	4030	5,900				
4030C	Magnetic tape transport 7 track, 37.5 ips, industry compatible. (Ampex TMZ).	4030	7,000				
4030D	Magnetic tape transport, 9 track, 37.5 ips, industry compatible. (Ampex TMZ).	4030	7,000				
4030E	Magnetic tape transport, 7 track, 120 ips, industry compatible (Ampex TM16).	4030	19,000				
4030F	Magnetic tape transport, 9 track, 120 ips, industry compatible (Ampex TM16).	4030	19,000				
4035	Magnetic tape adapter kit. Provides unit selection and adapts the Ampex TMZ, TM16, or PEC 6840 (9-track only) transports to the tape control (4030) bus.	4030	900				

Type Number	Description	Pre-requisite	Price	Type Number	Description	Pre-requisite	Price
GENERAL PURPOSE INTERFACES				1012B	Vertical rack cabinet; 28" high; 19" wide panels; 25" depth; side panels; full length rear door; removable top panel with louvres. Charcoal gray with aluminum trim.		\$ 375
4040	General purpose interface board. Busy and Done logic, device selection. Interrupt request and acknowledge logic, interrupt mask and I/O signal selection. Space for IC's or sockets. Type 4041, 4042, 4043 and 4044 may be added. Occupies one subassembly slot.	Any central processor	\$ 450	1012C	Blower unit for above racks, 425 CFM, mounts in bottom of rack, uses 3 1/2" of panel height. Has reusable aluminum filter and aluminum trim grill.	1012A, B	500
4041	16-bit input register and 16-bit output register for Type 4040 general purpose interface board.	4040	100	1005A	Five-foot I/O cable including male 50-pin connector on one end; female 50-pin connector on other end.		400
4042	Data channel connection. Consists of data channel synchronization and request logic, current address register and word count register.	4040	300	1006A	Ten-foot I/O cable configured as 1005A.		450
4043	Wire-wrap pins inserted into Type 4040 general purpose board.	4040	200	1007A	Fifteen-foot I/O cable configured as 1005A.		500
4044	Wire-wrap pins and 16-pin low profile sockets for dual in-line integrated circuits.	4040	260	1008A	Twenty-foot I/O cable configured as 1005A.		550
4045	Back panel connector for 4040. Brings 48 pins from 4040 to an external 52-pin connector.	4040	200	1009A	Twenty-five foot I/O cable configured as 1005A.		600
GENERAL PURPOSE WIRING BOARDS				1010A	Fifty-foot I/O cable configured as 1005A.		850
1001	General purpose wiring frame and connectors. Has capacity for up to 8 Type 1002, 1003, or 1004 general purpose wiring boards. May also use 1014 cover. Occupies one subassembly slot.		110	1011A	I/O cable (50 twisted pair). Length must be specified (cable only).		10/ft
1002	General purpose wiring board. Blank with hole pattern for 14-, 16-, 24-, and 36-pin IC's as well as discrete components. Capacity is twelve 14- or 16-pin dual-in-lines.	1001	20	1013	I/O terminator for external I/O bus.		160
1003	General purpose wiring board with wire-wrap pins. Same as Type 1002, except wire-wrap pins have been added.	1001	60	1015A	Five-foot cable for interconnecting 4019A, B, or C units. \$5/foot for additional length, total length of disc and disc control cable not to exceed 50 feet.	4019A,B,or C	175
1004	General purpose wiring board with wire-wrap pins and sockets. Same as Type 1003 except 12 16-pin low profile sockets for dual in-line integrated circuits have been added.	1001	75	1016A	Ten-foot cable for interconnecting 4030A-F or 4035 units. \$5/foot for additional length. Total length of mag tape and mag tape control cable not to exceed 50 feet.	4030A-F or 4035	200
1014	Protective cover for 1001 general purpose wiring frame. Protects wiring and parts.	1001	50	1017A	Ten-foot I/O cable for connecting Bell System Type 103 data sets to Type 4050 or to Type 4023. Has 9-pin connector on one end and 25-pin connector on other end. \$3/foot for additional cable length.	4023 or 4050	125
1021	General purpose wiring board. Blank with hole pattern for 14, 16, 24 or 36 pin IC's as well as discrete components. Capacity is 155 14- or 16-pin IC's.		250	1018A	Ten-foot I/O cable for connecting Bell System Type 202 or Type 103 Data Sets to Type 4029 or 4051. Has 19-pin connector on one end and 25-pin connector on other end. \$3/foot for additional cable length.	4029 or 4051	125
1022	General purpose wiring board. Same as type 1021, except wire-wrap pins have been added.		550	1019A	Ten foot Teletype extension cable. \$.50/foot for additional cable length. Maximum length for remote operation reader control, 100 ft.; 1000 ft. otherwise.	4010A - E	125
1023	General purpose wiring board. Same as type 1021 except wire-wrap pins and 16-pin low profile sockets for dual in-line integrated circuits have been added.		750	1020A	Connector adapter. Connects standard Teletype to 4051 modem junction panel. Consists of 19-pin male and 9-pin female connectors.		50
1024	Protective cover for 1021, 1022, 1023, and 4040 through 4044.	1021-22-23, 4040-4044	50	Note 1: Any multiple-unit items within a single system are discounted separately. For example, in a system including two Type 4003 memories, there is a two-unit discount on the price of the memories.			
CABINETS AND I/O CABLE				Note 2: Any item followed by a letter is a non-discountable item.			
1012A	Vertical rack cabinet; 61 1/4" high; 19" wide panels; 29" depth; flush side panels; full length rear door; removable top panel with louvres. Charcoal gray with aluminum trim.		700				

DATA GENERAL CORPORATION SALES AND SERVICE, Route 9, **Southboro, Massachusetts** 01772, (617) 485-9100, TWX (710) 390-0309, TELEX 94 8460; 20 Rolfe Road, **Hamden, Connecticut** 06517, (203) 624-7010; 474 Thurston Road, **Rochester, New York** 14619, (716) 235-5959, TWX (510) 253-3841, TELEX 97 8349; 50 Market Street, **Saddlebrook, New Jersey** 07662, (201) 843-0676; P.O. Box 243, **Commack, L.I., New York** 11725, (516) 368-3304; P.O. Box 358, **Bryn Mawr, Pennsylvania** 19010, (215) 527-1630; 1629 K Street, Suite 5023, **Washington, D.C.** 20006, (202) 296-0380; 2074 Arlington Avenue, **Columbus, Ohio** 43221, (614) 488-9753; P.O. Box 513, **Orlando, Florida** 32802, (305) 425-5505, TWX (810) 850-0146; 3535 West Peterson Avenue, **Chicago, Illinois** 60645, (312) 539-4838, TWX (910) 221-0177; 2120 South Post Oak Road, **Houston, Texas** 77027, (713) 622-2820, TWX (910) 881-3668; 4219 Sigma Road, **Dallas, Texas** 75240, (214) 233-4496; 5701 E. Evans Avenue, Suite 25, **Denver, Colorado** 80222, (303) 758-5080, TWX (910) 931-0485; 430 Sherman Avenue, Suite 206, **Palo Alto, California** 94306, (415) 321-9397, TWX (910) 373-1160; 2100 Sepulveda Boulevard, Suite 39, **Manhattan Beach, California** 90266, (213) 376-7917, TWX (910) 344-7353, **DATAGEN OF CANADA, LTD.** Richelieu Park, **Hull, Quebec**, (819) 770-2030, TWX (610) 564-6752; 887 Montee de Liesse, **Montreal 379, Quebec**, (514) 341-4571, TWX (610) 421-3486; 1460 Don Mills Road, **Toronto 17, Ontario**, (416) 447-8000, TWX (610) 492-2792; 1310 West Sixth Street, **Vancouver, British Columbia**, (604) 731-2711, TWX (610) 929-3025; **INTERNATIONAL** 19 Conduit Street, **London, W.1., England**, 01-499-7735; Prinzregentenstrasse 54/4, 8 **Munich 22, West Germany**, 0811-295513; 19-21 Rue Madame de Sanzillon, 92 **Clichy, France**, 270-22-55, TELEX 842 62529; Box 56, 161 26 Bromma 1, **Snormakarvagen 35, Sweden**, 08/80 25 40, TELEX 854 10312; P.O. Box 10118, **Helsinki 10, Finland**, 45 00 45, TELEX 857 12405; Via Montefeltro, 8, 20156 **Milan, Italy**, 30 56 91, TELEX 843 34387; Hovedvejen 9, DK-2600 **Glostrup, Denmark**, 01/96 53 66, TELEX 855 5468; Mariahilferstrasse 20, 1070 **Vienna, Austria**, TELEX 847 11532; 13 Cort van der Lindenstraat, **Rijswijk Zh, The Netherlands**, 070-98 51 53, TELEX 844 31238; Pl. de Jamblinne de Meux 37, **1040 Brussels, Belgium**, 02/35 21 35, TELEX 846 22846; Muhlebachstrasse 28, 8008 **Zurich, Switzerland**, 051/340777; 146 Bar Yochai Street, Katamon Tet, **Jerusalem, Israel** 02 60439; 420 Mount Dandenong Road, **Croydon, Victoria 3136, Australia**, 723-4131, TELEX 790-30846.